

Amendments to the Specification

Please amend the paragraph on page 10, line 22 to page 11, line 19 as follows:

FIG. 4 illustrates an additional implementation of the telecommunication environment for obtaining geographic boundary information. A location transmitter 110 is maintained in a geographic location or boundary 112, such as an office, building, designated region, etc., and includes a communication layer 114 to transmit data throughout the geographic location 112. For larger geographic locations, multiple location transmitters 110 may be deployed to transmit throughout the entire geographic location 112. The location transmitter 110 maintains [[a]] geographical boundary information 116, defining a region of x, y, z coordinates, and a location description 118 providing descriptive information on the geographic boundary 112. The local transmitter 110 is capable of transmitting the geographic boundary 116 and location description 118 information through the communication layer 114 to any receiving device within the geographic boundary 102. For instance, the communication layers 12 and 114 of the wireless device 2 and location transmitter 110, respectively, may implement Bluetooth technology. In such Bluetooth implementations, the location transmitter 110 may continually transmit packets containing an Inquiry Access Code (IAC) to establish communication with any wireless devices 2 within the geographic boundary 112. The wireless device 2 may then respond to establish a connection with the local transmitter 110. Upon establishing the connection, the local transmitter 110 may then transmit the geographic boundary 116 and location description 118 information through communication layer 114 to the communication layer 12 of the wireless device 2. Further details of Bluetooth communication technology are described in the publication “Bluetooth(TM): Connect Without Cables” by Jennifer Bray and Charles F. Sturman (Copyright 2001, Prentice Hall), which publication is incorporated herein by reference in its entirety. In alternative implementations, the communication layers 12 and 114 may utilize wireless communication protocols other than Bluetooth known in the art to perform the communication operations described herein, such as the wireless LAN architecture standard proposed in IEEE 802.11.

Please amend the paragraph on page 11, line 20 to page 12, line 2 as follows:

FIGs. 5-7 illustrate logic implemented in the PIM client 20 and server 24 to gather and utilize position information concerning the wireless device 2. FIG. 5 illustrates logic

implemented in the PIM client 20 to gather position information to provide to the PIM server 24 to include within measured position records 54 in the database 22. At block 200, the wireless device 2 establishes communication with a location transmitter 110, using the Bluetooth technology or other wireless technology known in the art. After establishing a connection with the location transmitter 110, the PIM client receives (at block 202) a geographic boundary 116 comprised of X, Y, Z coordinates defining a three dimensional boundary on earth and location information describing the geographic boundary [[116]] 112.